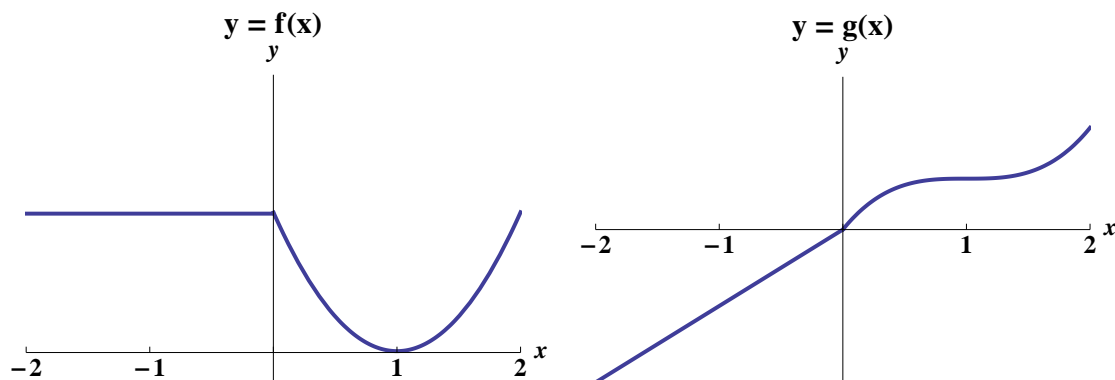


4. [10 points] Given the graph of $f(x)$, sketch the graph of $g(x)$. Make sure your graph accurately shows the intervals where $g(x)$ is increasing or decreasing and its concavity.

a. [5 points] Let $g'(x) = f(x)$ with $g(0) = 0$.



b. [5 points] Let $g(x) = \int_1^x f(t) dt$.

